

Approved For Release 2009/09/15 : CIA-RDP78B03824A000500010070-4

ORIG : [REDACTED]
UNIT : NPIC/PSG/R&RD/DAS
EXT : [REDACTED]
DATE : 2 June 1970

CLASSIFIED MESSAGE

TOP SECRET

TO : SAC ACIC, FTD, USAFE, PACAF, ARMY, DIA, NAVY, TOPOCOM,
[REDACTED] AHS, 544 ARTW OFFUTT, [REDACTED], FICEUR, OPCEN
FROM: NPIC
CONF:
INFO : [REDACTED]

ROUTING	
1	4
2	5
3	6

3 JUN 70 17 05			
PRIORITY ROUTINE	DEFERRED X X	X X	INITIALS B W
OPERATIONAL IMMEDIATE			INITIALS

OUT69987

TO TOP SECRET. [REDACTED] CITE NPIC

CITE

0628

SUBJECT: CAMERA INFORMATION FOR MISSION 1110-1

1. THE MISSION UTILIZED TWO PAN CAMERAS, FOUR HORIZON CAMERAS,
DUAL STELLAR CAMERAS AND AN INDEX CAMERA.

2. CAMERA DATA

A. MAIN UNITS

FOCAL LENGTHS (MM)	PAN CAMERAS	PORT HORIZONS	STBD HORIZONS
FWD	609.6508	NA	NA
AFT	609.6610	NA	NA

FILTERS
PAN FWD PRIMARY W -23A
PAN FWD ALTERNATE W -25
PAN AFT PRIMARY W -21
PAN AFT ALTERNATE W -23
FWD STBD HORIZON W -25
FWD PORT HORIZON W -25
AFT STBD HORIZON W -25

COORDINATING OFFICERS

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GROUP 1
Excluded from automatic
downgrading and
declassification

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P R E C E D E N C E	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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TO

INFO

CITE

AFT PORT HORIZON W-25

APERTURE

STBD HORIZON F 8.0

PORT HORIZON F 6.3

FILM

FWD 3404/SO-349/3404

AFT 3404/SO-349/3404

DYNAMIC RESOLUTION (LINES/MM)

FWD HIGH CONTRAST 268

FWD LOW CONTRAST 159

AFT HIGH CONTRAST 243

AFT LOW CONTRAST 160

UNIT NUMBER FWD 323

40
AFT 322

B. DISIC UNIT NO. 10

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ROUTING

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P R E C E D E N C E	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO	CITE	
		PORT STELLAR	STBD STELLAR
10	31	31	55
FOCAL LENGTHS (MM)	76.165	76.171	76.358
FILTER (WRATTEN)	NONE	NONE	W-12
EXPOSURE (SEC)	1.5	1.5	1/500
FILM	3401	3401	3400

3. LENS DISTORTION (PIN CUSHION) (MM)

A. MAIN UNITS ANGLE OFF AXIS (DEG)	81	46	46	56	55	60	65
	3	2	1	0	359	358	357
FWD	.004	.002	0	0	0	.001	.003
AFT	.001	0	0	0	0	.001	.002

B. HORIZON CAMERA DISTORTION

	FWD PORT	FWD STBD	AFT PORT	AFT STBD
RADIAL 10 DEG	.01	.01	.02	.01
20 DEG	.05	.03	.04	.05
TANGENTIAL	.016	.028	.025	.006

4. CAMERA ANGLES

A. ANGLE BETWEEN PAN CAMERAS NA

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INFO :

PRIORITY DEFERRED	ROUTINE	PRIORITY	INITIALS
		OPERATIONAL IMMEDIATE	INITIALS

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TO INFO CITE

B. DEPRESSION ANGLES BETWEEN HORIZONS AND PAN CAMERAS NA

C. ANGLES BETWEEN STELLAR AND INDEX CAMERA

STBD STELLAR AND INDEX 100DEG 00 MIN 43.0 SEC

PORT STELLAR AND INDEX 99 DEG 59 MIN 16.0 SEC

5. TIMING MARKS

FREQUENCY MARKS WILL APPEAR ON THE FILM AT A RATE OF 200 CYCLES
PER SECOND.

6. IMAGE MOTION COMPENSATION DATA

5 PASSES	36 REF LEVEL	50 AMP LEVEL
1D, 4D	2	13
6D THRU 25D	1	13
37D THRU 40D	3	13
42D, 128D THRU 134	2	5
48D THRU 56D	2	6
57D THRU 59D	3	6
70D THRU 76D	3	7
85D THRU 90D	2	8

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ROUTING			
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3	6		
P R O C E D U R E	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO	CITE
	97D THRU 103D	2 9
	106D	3 9
	118D	3 10
	121D THRU 123D	3 11
	137D, 138D	3 5
	145D	4 5
	152D THRU 155D	4 6
	167D	2 7

FOR ALL PASSES PRIMARY PERIOD 3998 SECONDS, SECONDARY PERIOD 2623 SECONDARY
RAMP FACTOR 0.057700

7. PROGRAM TIME DATA
CAMERA ON TIME
(ZULU TIME)

PROGRAM ON TIME
UP RAMP

PROGRAM
DURATION

PASS	DAY	HR	MIN	SEC	SEC	SEC
1D	20	23	01	18	1580	36
4D	21	03	25	45	1496	78
6D	21	06	30	20	2030	122
7D	21	08	00	41	2133	103

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ORIG :	TOP SECRET			ROUTING	
UNIT :	1	4		2	5
EXT :	3	6		3	
DATE :					
TO :					
FROM :					
CONF :					
INFO :					

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TO	PASS	DAY	HR	INFO			CITE	SEC
				MIN	SEC			
9AE	21	10	30	50			456	25
10D1	21	12	29	48			2276	86
10D2	21	12	40	54			2943	62
16D	21	21	16	58			2004	40
19D	22	01	35	38			1589	102
20D	22	03	04	14			1591	83
21D1	22	04	36	58			1841	63
21D2	22	04	38	46			1950	99
22D1	22	06	03	15			1705	293
22D2	22	06	09	57			2107	104
23D	22	07	36	08			1966	91
24D	22	09	04	22			1949	47
25D1	22	10	30	16			1792	80
25D2	22	10	36	11			2146	34
37D	23	04	14	21			1925	173
39D	23	07	12	18			1987	134

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THE SECRET

ORIG :
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TO :

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CONF:

INFO :

ROUTING				
1		4		
2		5		
3		6		
P R O C E D E N C E	DEFERRED		PRIORITY	INITIALS
	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO					CITE	
	PASS	DAY	HR	MIN	SEC	SEC	SEC
40D	23	08	42	48		2113	42
42D	23	11	41	58		2039	72
48D	23	20	34	24		2060	30
53D	24	03	53	19		1806	134
54D	24	05	21	26		1776	45
55D	24	06	54	11		2025	41
56D	24	08	21	11		1930	97
57D1	24	09	44	01		1584	110
57D2	24	09	48	42		1865	139
58D	24	11	21	03		2089	39
59D1	24	12	48	34		2024	73
59D2	24	12	50	14		2123	85
70D	25	05	03	07		2048	110
72D	25	07	55	47		1783	164
73D1	25	09	29	00		2066	35
73D2	25	09	30	18		2144	89

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ROUTING	
1	4
2	5
3	6

PRIORITY PRECEDENCE	DEFERRED	ROUTINE	PRIORITY	INITIALS
	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO					CITE	
	PASS	DAY	HR	MIN	SEC	SEC	SEC
74D1	25	10	53	19	1812	92	
74D2	25	11	00	06	2219	86	
74D3	25	11	02	42	2375	36	
76D	25	13	57	23	2237	84	
85D	26	03	07	55	1913	82	
87D	26	06	04	11	1854	79	
88D	26	07	33	26	1893	163	
89D1	26	09	04	05	2016	35	
89D2	26	09	06	05	2136	47	
89D3	26	09	08	09	2261	47	
90D	26	10	31	41	1955	65	
97D	26	20	54	42	2133	52	
102D1	27	04	15	06	1990	49	
102D2	27	04	17	23	2128	67	
103D	27	05	42	13	1905	39	
106D	27	10	13	46	2233	104	

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ROUTING				
1	4			
2	5			
3	6			
PRECEDENCE	DEFERRED		PRIORITY	INITIALS
	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO					CITE	
	PASS	DAY	HR	MIN	SEC	SEC	SEC
118D	28	03	53	34	2116	79	
121D	28	08	20	34	2218	96	
122D1	28	09	43	20	1878	163	
122D2	28	09	53	48	2506	72	
123D	28	11	20	14	2388	57	
128D	28	18	42	02	2081	62	
129D	28	20	08	12	1932	67	
134D	29	03	30	01	1863	98	
137D	29	07	57	33	1973	92	
138D	29	09	20	42	1647	58	
145D	29	19	48	09	2106	39	
152D	30	06	02	39	1801	148	
153D1	30	07	28	12	1625	85	
153D2	30	07	34	18	1991	175	
154D1	30	08	56	13	1597	79	
154D2	30	09	02	13	1958	33	

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INFO :

ROUTING			
1	4		
2	5		
3	6		
PRECEDENCE	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO					CITE
	PASS	DAY	HR	MIN	SEC	SEC
	154D3	30	09	03	42	2047
	155D1	30	10	28	47	1843
	155D2	30	10	34	17	2173
17	167D	31	04	13	44	1904
						187

8. TIME CORRELATION (MILLISECONDS)

PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
9	116269.448	37669.8891	-
16	155150.431	76550.8651	.007
25	201366.964	36367.3895	.009
32	240208.069	75208.4870	.007
41	286361.823	34962.2316	.009
48	325285.420	73885.8205	.008
57	371503.369	33703.7594	.010
64	410445.614	72645.9956	.009
73	456625.508	32425.8788	.011

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3	6		
P R O C E D U R E	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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TO	INFO	CITE	
PASS	CLOCK TIME	SYSTEM TIME	DIFFERENCE
81	500737.923	76538.2831	.011
89	4854.361	31125.6229	.009
~ 97	49273.365	75544.6154	.011
106	95201.900	35073.1382	.012
113	134008.847	73880.0746	.011
122	180171.689	33642.9035	.013
129	218957.505	72428.7083	.011
138	265183.183	32254.3725	.014
145	304094.256	71165.4337	.012
154	350250.803	30921.9662	.014
161	389160.382	69831.5327	.012

NOTE: ALL "DIFFERENCE" VALUES ARE PLUS.

NOTE: HORIZON CAMERAS FOCAL LENGTHS, ANGLE BETWEEN PAN CAMERAS,
DEPRESSION ANGLES ARE NOT AVAILABLE AT THIS TIME.

END OF MESSAGE

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Ch/PSG

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